INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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SUBJECT	Miscellaneous Reports on Electric and Hydroelectric Power. Stations and Institute in the USSR	DATE DISTR. NO. PAGES REFERENCES	28 December	1959
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ttachment 2: Thermal Electric Power Stations in Ostashkov, Kazan, Novo Kuybyshev,
Minsk, and Omsk. This report gives general information on the equipment and output
of power stations in the above cities.
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Attachment 3: Leningrad Branch of the Institute of Hydroelectric Planning.
a brief outline of the functions and ergantization of the 50X1-HUM
eningrad Branch. A rough organizational sketch is also included.
entingrad branch. A fough of gamizational saction is also included.
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INFORMATION REPORT INFORMATION REPORT

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C-O-N-F-I-D-E-N-T-I-A-L -2-50X1-HUM THERMAL ELECTRIC POWER STATIONS IN OSTASHKOV, KAZAN, NOVO KUYBYSHEV, MINSK, AND OMSK Ostashkov For a one-and-a-half-month period in 1948, 50X1-HUM 1. in Ostashkov (N 57-08, E 33-06) in the Kalininskaya oblast. This station had a capacity of 3,600 kilowatts and supplied electricity for the city of Ostashkov and also for a tanning plant. Since it was a small installation it did not have a transformer station. The equipment consisted of the following: a. three 18-atmosphere boilers; date of installation and capacity not known b. two 18-atmosphere steam turbines, one with capacity of 500 kilowatts and the other, 1,200 kilowatts c. one turbogenerator with a capacity of 500 kilowatts and another with a capacity of 1,200 kilowatts. 50X1-HUM Kazan For a three or four month period in 1950, Kazan (N 55-45, E 49-08), Kazanskaya oblast, Tatarskaya ASSR. This was a coal-fed installation which supplied the Kazan power system. As of 1950, the station had a capacity of 75,000 kilowatts. Prior to 1950, the equipment consisted of two turbines, each with a capacity of 25,000 kilowatts, and two generators - all manufactured by the Leningrad Metal Plant; the third generator and the third 25,000-kilowatt turbine installed in 1950 50X1-HUM Novo Kuybyshev 3. 50X1-HUM This was a mazut-fed installation with a capacity of 25,000 kilowatts. Only the first stage of the installation was completed in 1951 but the station was to be expanded and converted to the use of coal. It had a transformer station, located in the open, with a cooling tower made of wood; there was one cement chimney morethan 40 meters high. The following equipment was installed in the summer of 1951: a. two 110-atmosphere boilers, each with a capacity of 170 tons b. one 90-atmosphere steam turbine with a mean capacity of 25,000 kilowatts and a maximum of 30,000; it was manufactured by the 50X1-HUM Leningrad Metal Plant. only one additional turbine could be installed in the station; C-O-N-F-I-D-E-N-T-I-A-L

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main	This was a coal-fed 50,000-kilowatt allation which supplied the Minsk power system; however, the function of the station was to supply power to a soon-to-be-	
Cons	The equipment consisted of the following:	50X1-HUN
a.	a transformer station, located in the open	50X1-HUN
ъ.	two 110-atmosphere boilers, each of which had a capacity of 200 tons of steam; one was installed in 1954 and the other some time prior to 1954.	
c.	two 90-atmosphere steam turbines, each with a mean capacity of 25,000 kilowatts and a maximum of 33,000 kilowatts; the one installed in 1954 was a BPT-25 type (sic) manufactured by the Leningrad Metal Plant;	X1-HUM
d.	two turbogenerators, one installed in 1954 and the other some time prior to 1954.	
Oms	s	
		5074 1111
	As of early	50X1-HUN
195	o, only the initial apparatus had been installed	
	It was	
pet kil	ng constructed primarily to supply hot water and steam to a roleum refinery then under construction at a site about two ometers distant. The station had a capacity of 25,000 kilowatts could be overloaded to 33,000 kilowatts; it was scheduled to be	7
	anded The equipment installed	
exp	early 1955 consisted of the following:	DX1-HUM
exp		OX1-HUM
in	early 1955 consisted of the following:	DX1-HUM
in a.	a Soviet-made boiler with a capacity of 170 tons of steam one BPT-type (sic), 90-atmosphere steam turbine, with a mean capacity of 25,000 and a maximum of 30,000 kilowatts; it was a	d
in a.	a Soviet-made boiler with a capacity of 170 tons of steam one BPT-type (sic), 90-atmosphere steam turbine, with a mean capacity of 25,000 and a maximum of 30,000 kilowatts; it was a product of the Leningrad Metal Plant. one turbogenerator, with a 25,000 kilowatt capacity; it operates at an average of 30 and a maximum of 37.5 kilowatt amperes (sic probably kilovolt amperes); it had been manufactured by the	d
in a.	a Soviet-made boiler with a capacity of 170 tons of steam one BPT-type (sic), 90-atmosphere steam turbine, with a mean capacity of 25,000 and a maximum of 30,000 kilowatts; it was a product of the Leningrad Metal Plant. one turbogenerator, with a 25,000 kilowatt capacity; it operates at an average of 30 and a maximum of 37.5 kilowatt amperes (sic probably kilovolt amperes); it had been manufactured by the	a:
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d.	Ukrainian Institute of Hydroelectric Planning, Kiev, Ukrainskaya SSR. 50X1-HUM
unde cha r the Foll	The Leningrad Branch was organized in the same manner as lar USSR institutes (see sketch on page). Its administration was r a director assisted by a deputy director. A chief engineer was in ge of the technical functions and was the responsible technician in absence of the director. He was aided by a deputy chief engineer. owing is a list of the various sections and some of their functions.
·	rersonnel section, in charge of personnel assignment and control. Technical section, which worked on technical problems that appeared during the planning stage. Its personnel consisted of engineers and 50X1-HUM specialized technicians.
	Budget section, which drew up the budgets of all institute projects; personnel totaled about 20, most of whom were engineers working under a chief engineer.
e.	Turbines section, comprised of an unknown number of engineers and technicians who specialized in the planning of turbines and their installation.
f.	Electrical section, composed of an unknown number of electrical engineers and specialists working on the planning of electrical installations and high-tension lines for GES stations.
ઈ•	Construction works and plant planning section, composed of an unknown number of engineers, technicians, and draftsmen, who drew up plans for the works, plants, shops, and other services related to the construction of GES stations.
h.	Architectural section, composed of an unknown number of architects, technicians, and draftsmen who worked on city planning.
i.	Sanitation section, composed of an unknown number of engineers, technicians and draftsmen, in charge of the planning of water supply, drainage, and all factors related to city sanitation.
j٠	Hudroenergetics section, composed of the same type of personnel as

3.

j. Hydroenergetics section, composed of the same type of personnel as those above, did research on such matters as power, production, and the number of turbines required.

k. Hydrology section, same compostion as above, in charge of hydrologec study of rivers and their basins.

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1. Geological section, same composition as above, conducted geological studies of future construction sites.

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- m. Accounting section.
- Records section, employing an unknown number of personnel. All projects completed by the Institute and all available materials related to these projects were filed here. Secret plans were filed in a special section;

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- o. Locks section, employing technicians, engineers, specialists, and draftsmen, in an unknown number, who worked on lock projects. This section was secret but had no special guard. A special pass signed by the director was necessary to enter the section.

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- 4. The hydroenergetics, hydrology, and geology sections sent teams of specialists throughout the USSR to conduct studies on prospective GES sites. After the various Institute sections had carried out their projects, groups were organized at each GES site to coordinate the studies and work out the construction details. During construction, specialists from these groups directed the work, keeping the Institute informed as to work progress and carrying out small projects or modifying existing ones at the request of the GES management.
- 5. Any construction or hydroenergetics engineer, geologist, or other person whose field of specialization was related to work carried out by the Institute could apply for admission, providing there was a vacancy. The applicant presented his professional credentials to the personnel section. No other special documents were required and Communist Party membership was not obligatory.

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		DATE OF R	REPORT:	
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1.	located on ulitsa Shchorsa, Leningradskaya oblast. It ion of Electric Power Stati organization). The Institu	Petrogradskiy Storonn was subordinate to the ons (see sketch), show	nyy rayon, in e Ministry of Constructing the table of	t- 50X1-HUM
	of its kind, this Institute research centers and worked maintained contact with sim and ideas, the study of hyd mixes, and studies of new s	closely with them. ilar institutes throug roelectric station mod	The Leningrad Branch interchange of plans	S
2.		institute was located rs of this type in the	- 1	50X1-HUN
	following: a. Moscow Branch of the In located on Baumanskaya	•		50X1-HUM),
	b. Tbilisi Institute of Hy	droelectric Planning:		50X1-HUM
	c. Central Asian Institute Uzbekskaya SSR.	of Hydroelectric Plan	nning, Tashke nt.	
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